



Big numbers

Bad math

Ubiquitous
invisibility

Forward
momentum

in developed countries

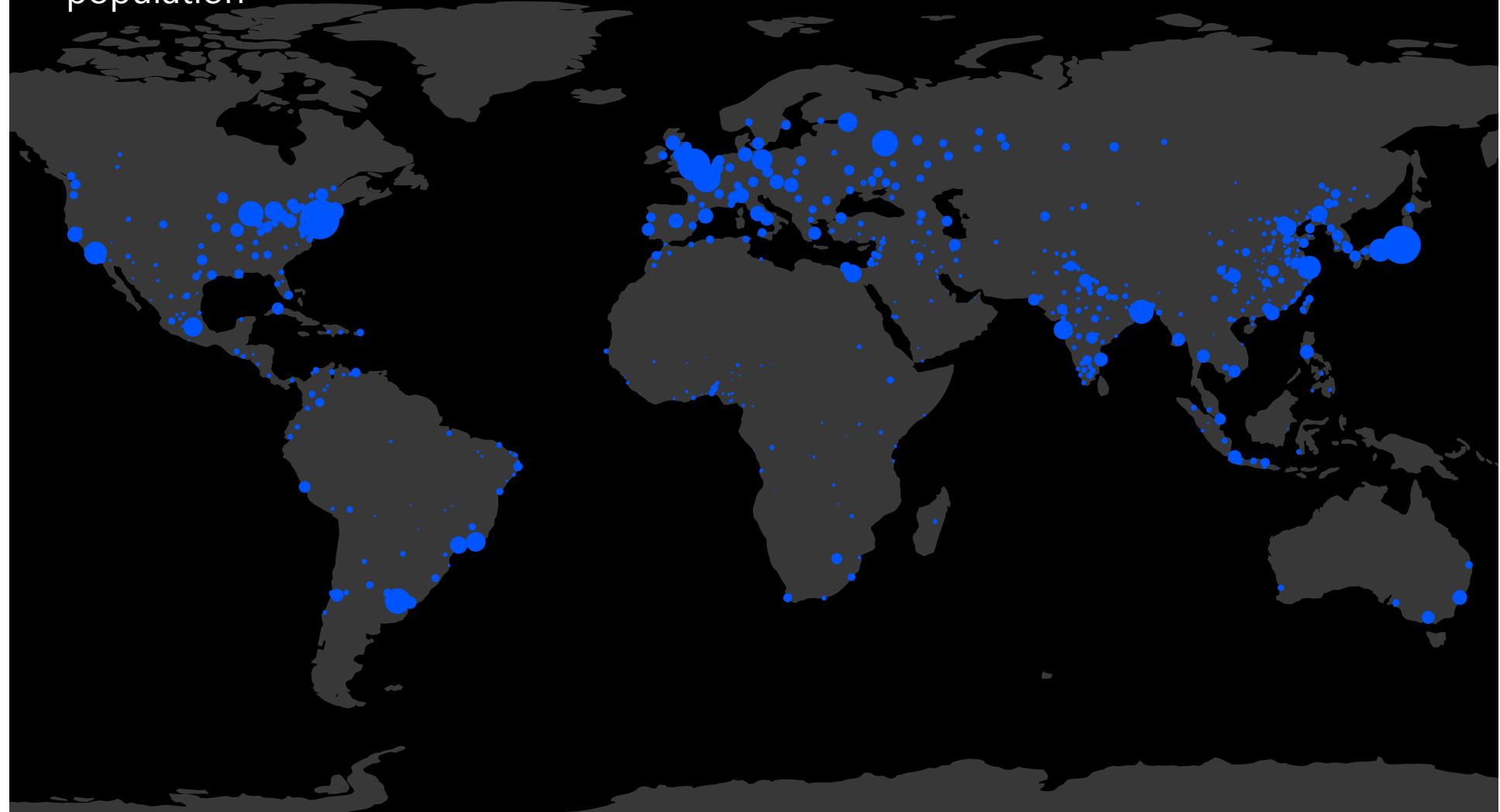
15%

~400,000,000,000,000

Cumulative number of trips globally 2014-2050

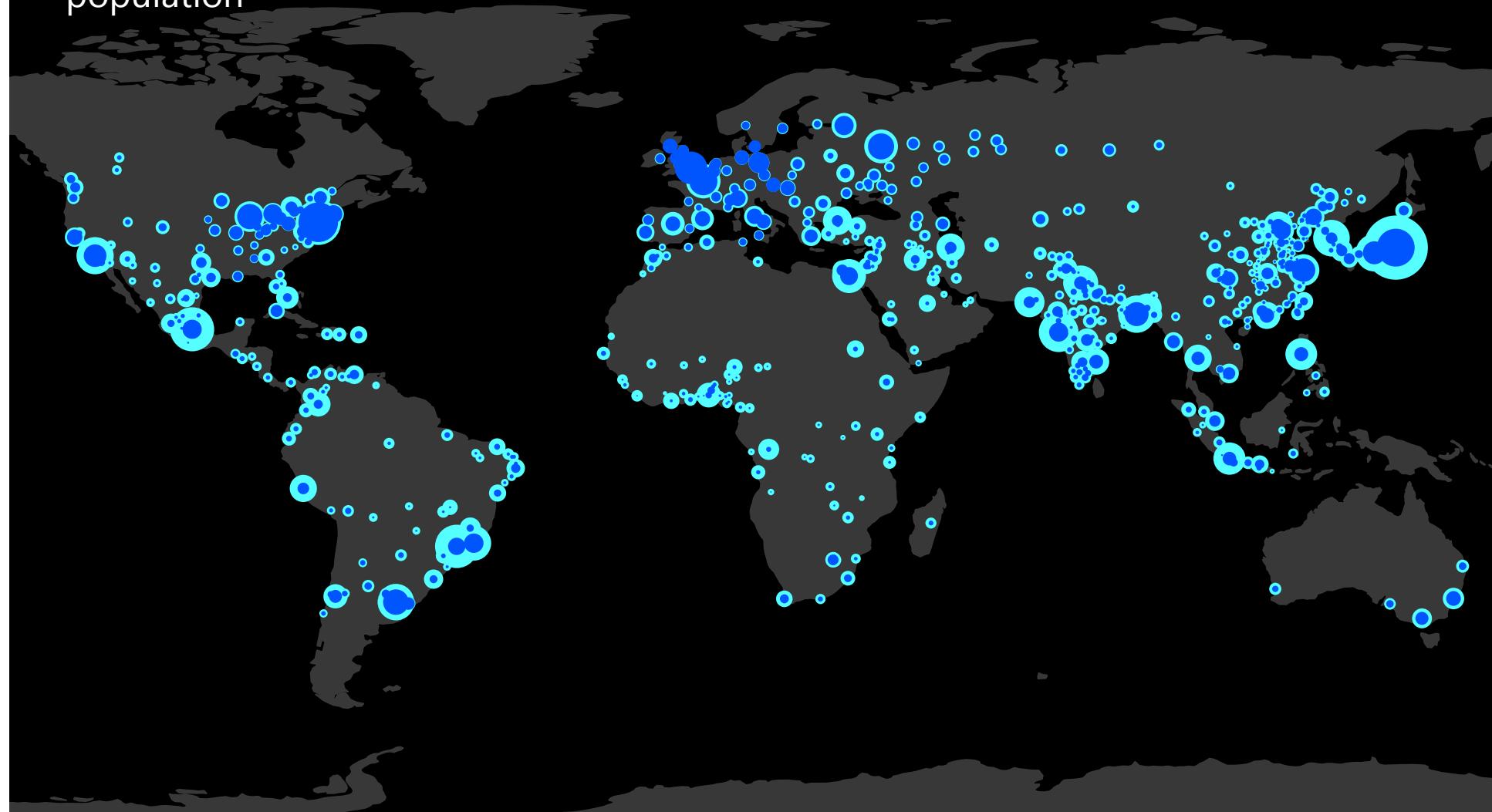
Urban areas: 1950

population



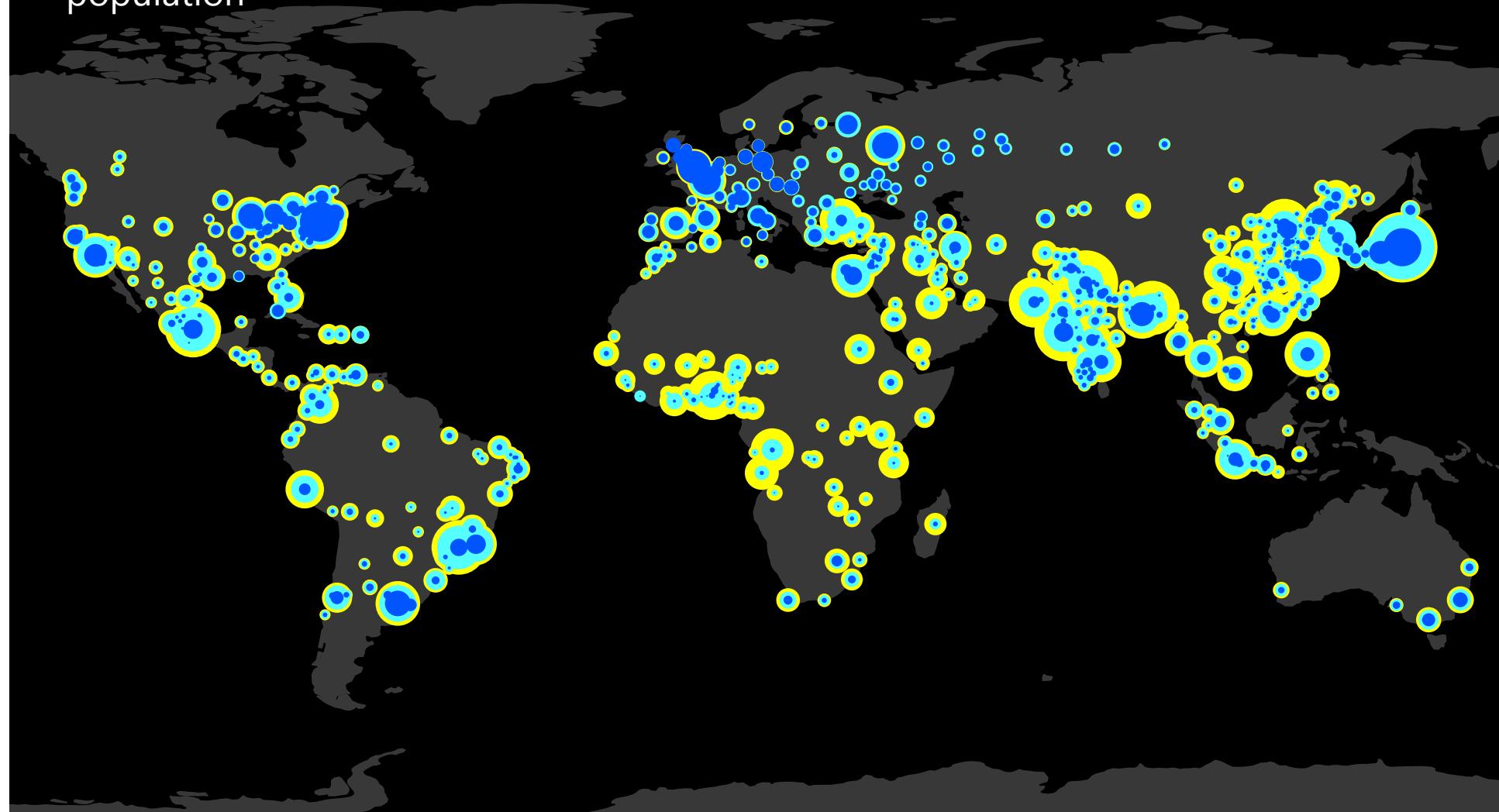
Urban areas: 1950, 1990

population



Urban areas: 1950, 1990, 2025

population



in developing countries

94%

~54,000,000,000,000

Cumulative number of new trips globally 2014-2050

in urban areas

97%

~54,000,000,000,000

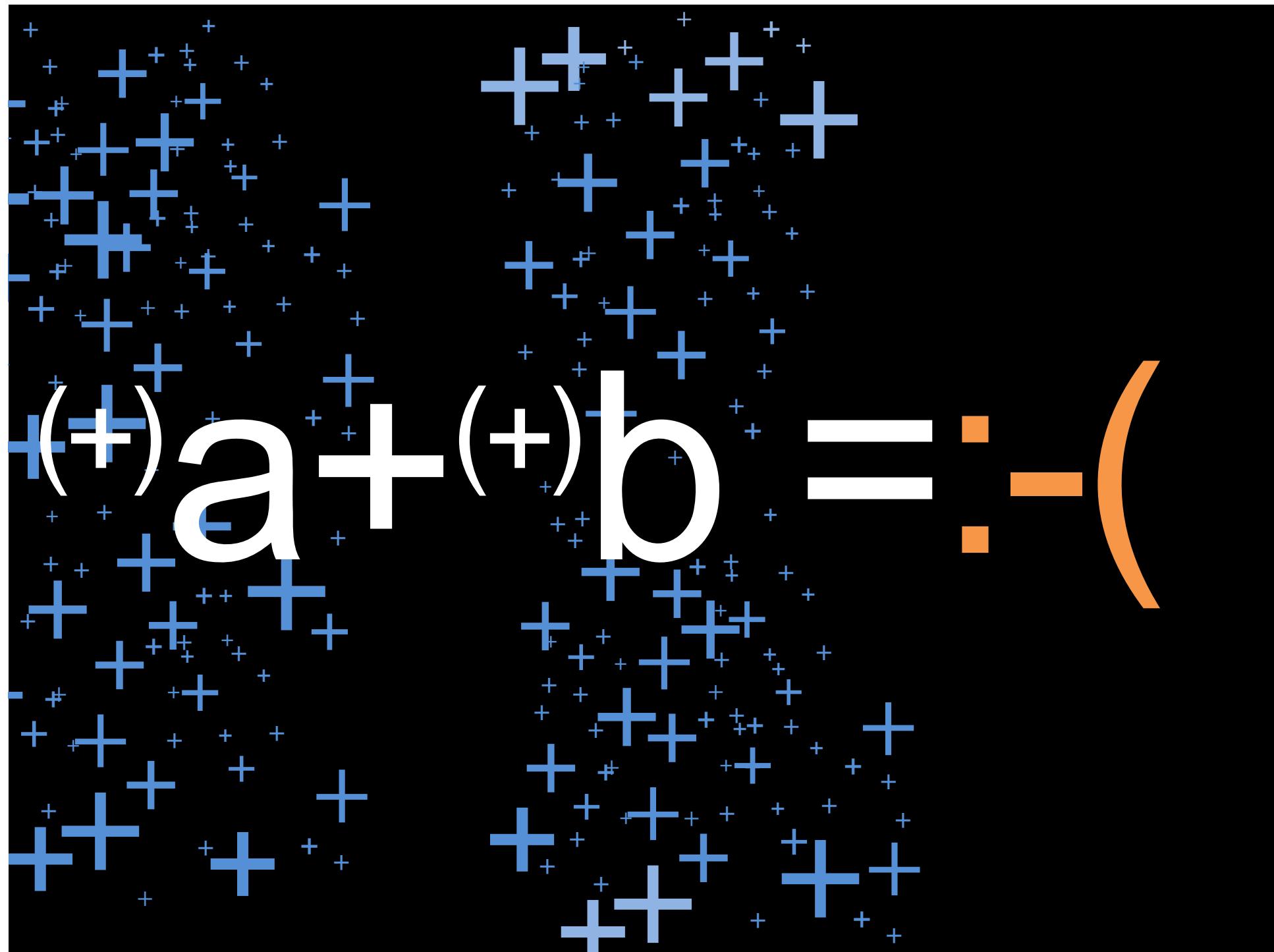
Cumulative number of new trips globally 2014-2050

Bad math

Rule:

The sum of two positive integers is a positive integer.

$(+)a + (+)b \equiv -)$



$$(+)(+)a + (+)b = -0$$



International
Transport Forum



OECD





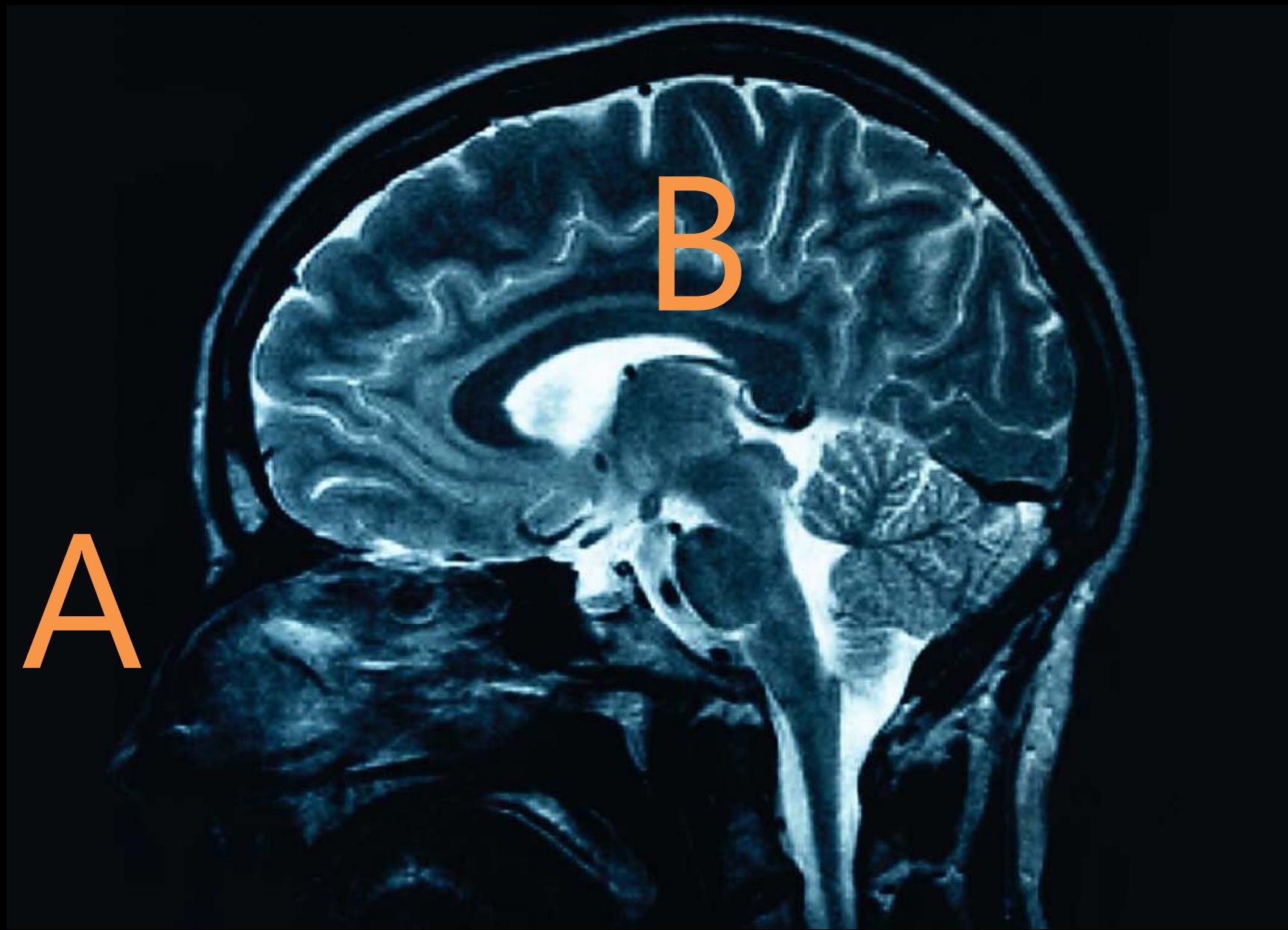
 International
Transport Forum

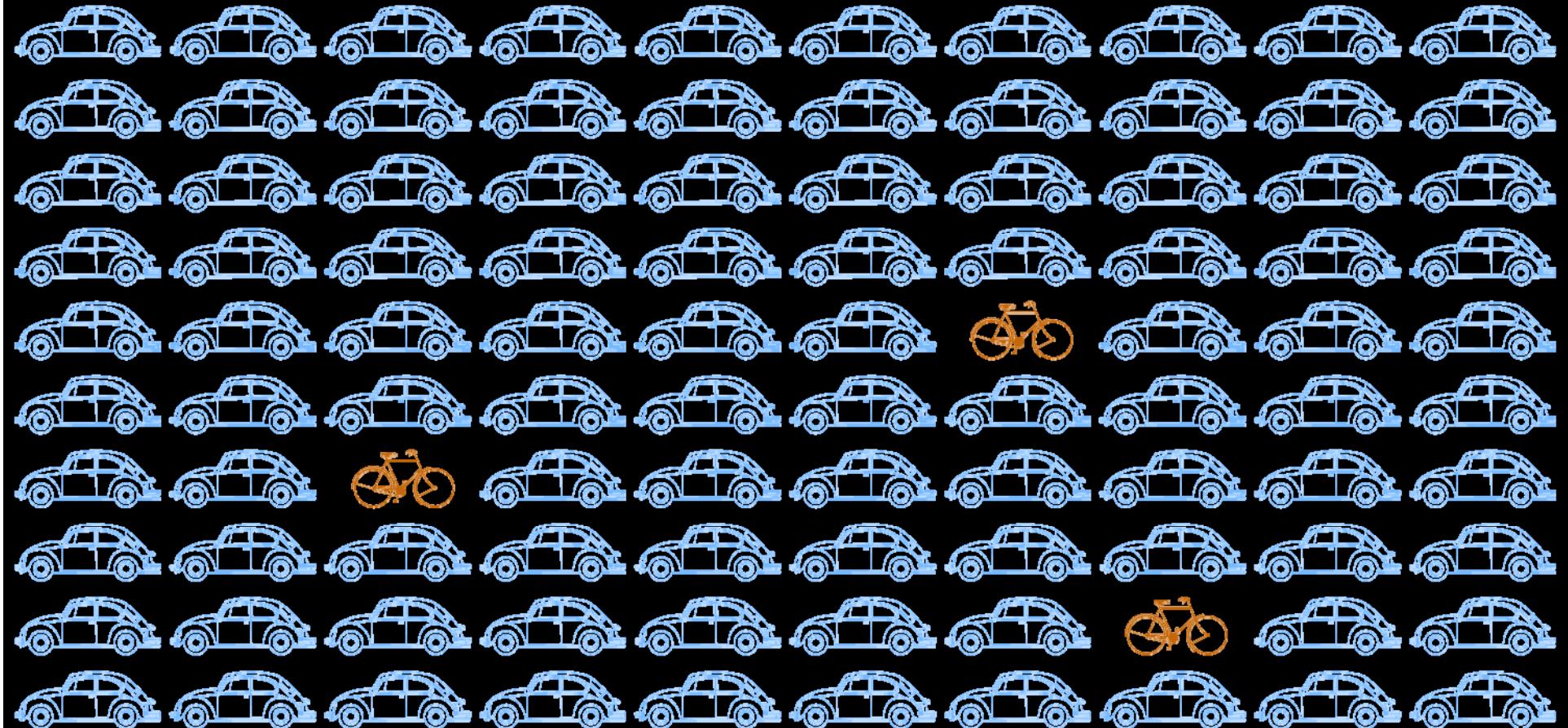
 OECD



= City Safety Valve

Ubiquitous
invisibility







Forward
momentum

choiceful cities

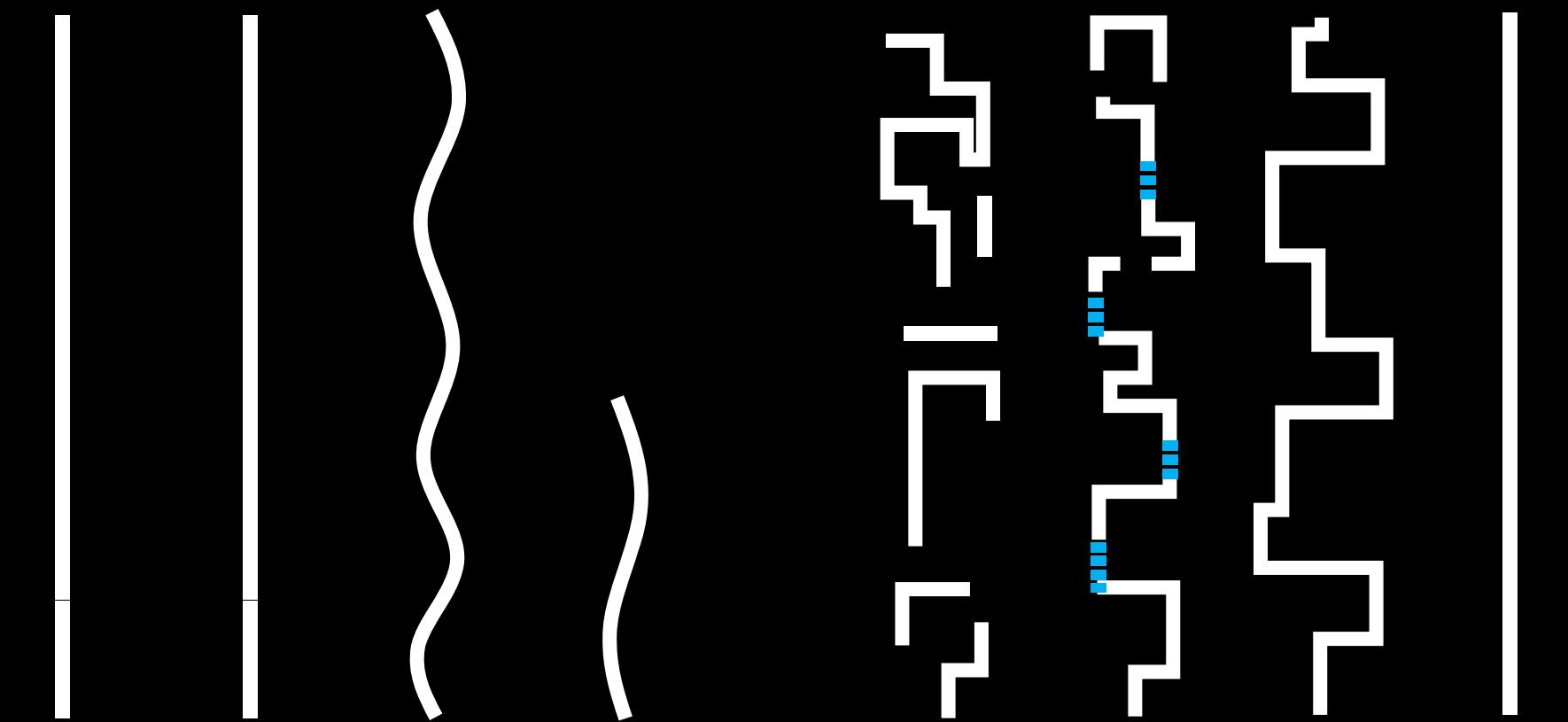
 public transport

+ safety

political commitment

Having
choices
is a
choice

A Short History of Traffic Planning



1920

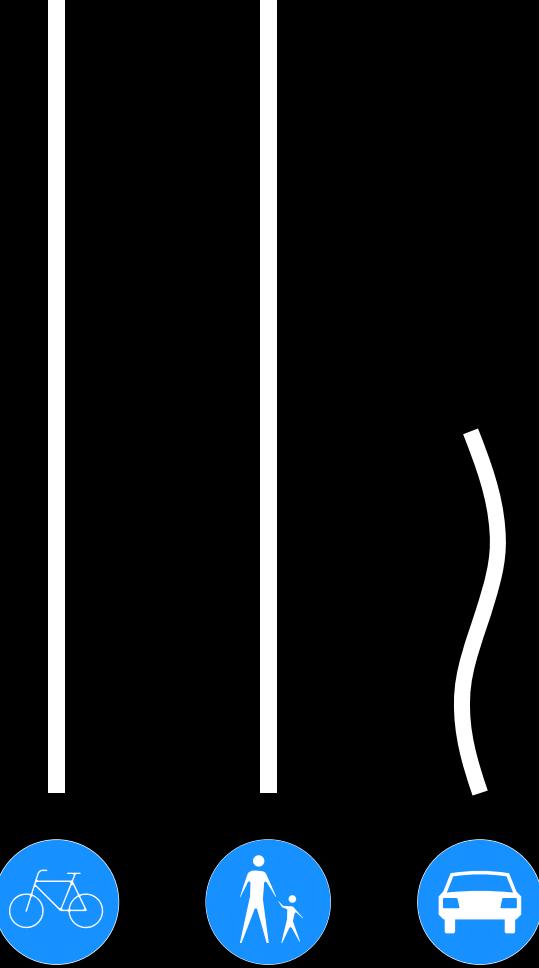
1950s-present



International
Transport Forum

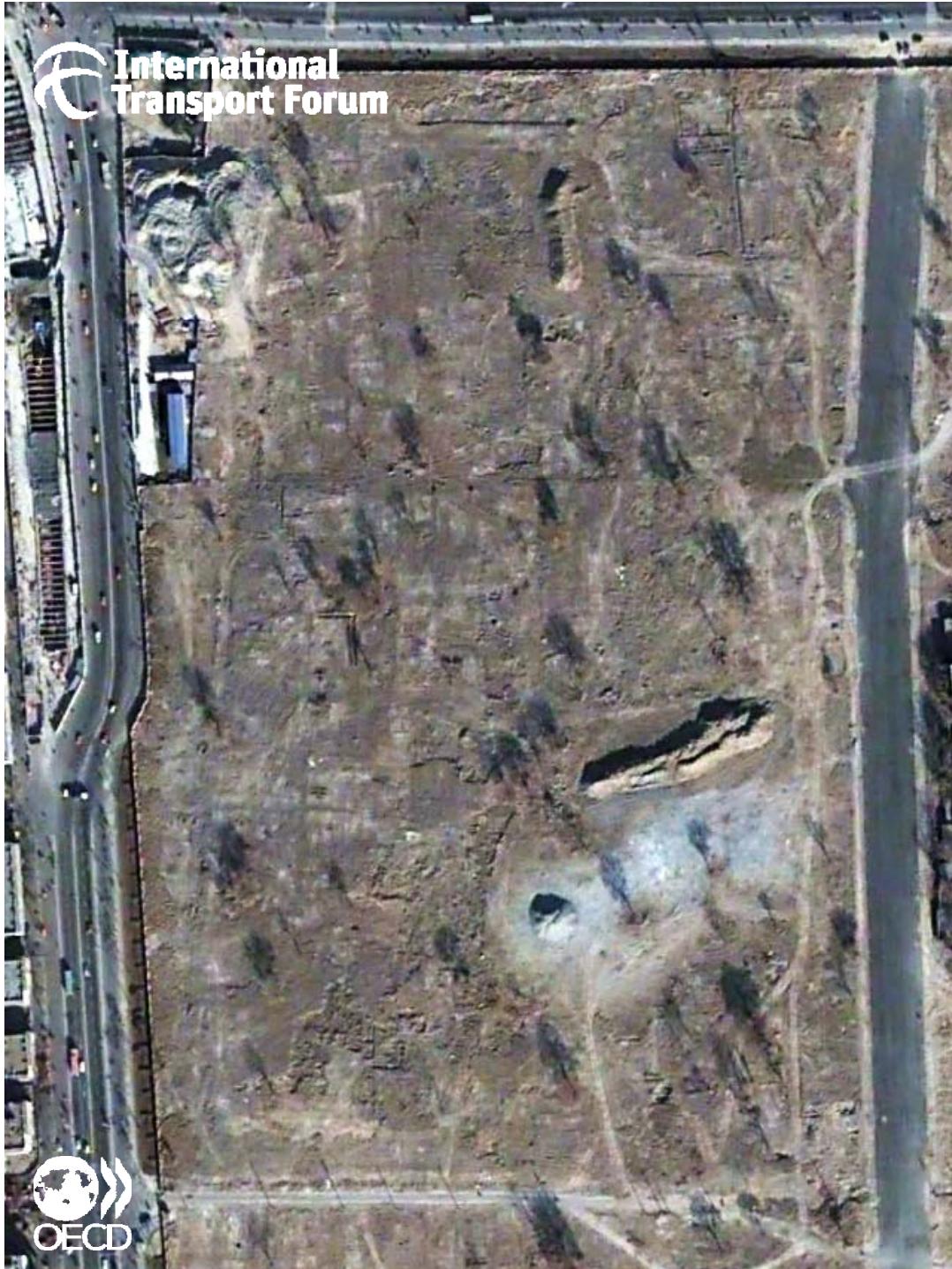


October 2000





International
Transport Forum



April 2004

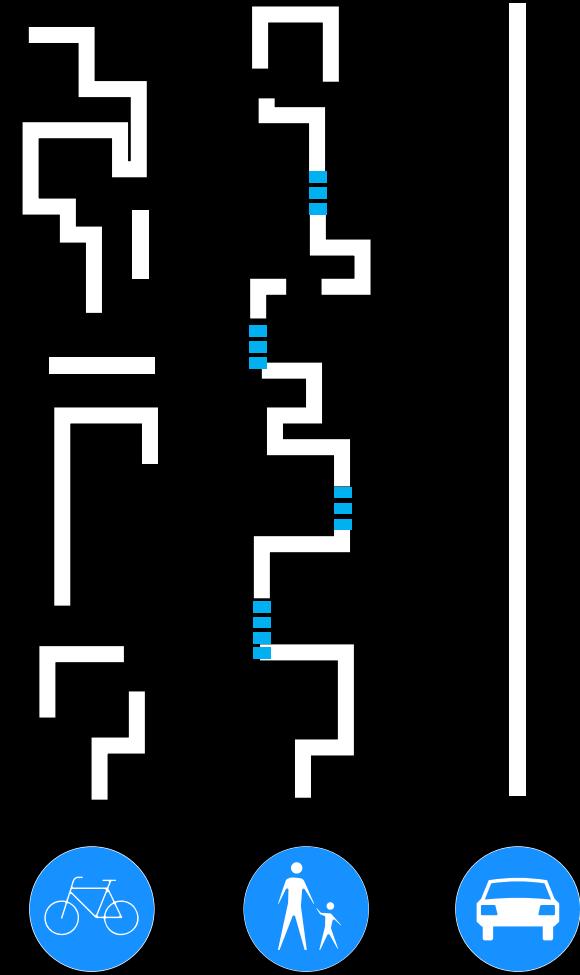


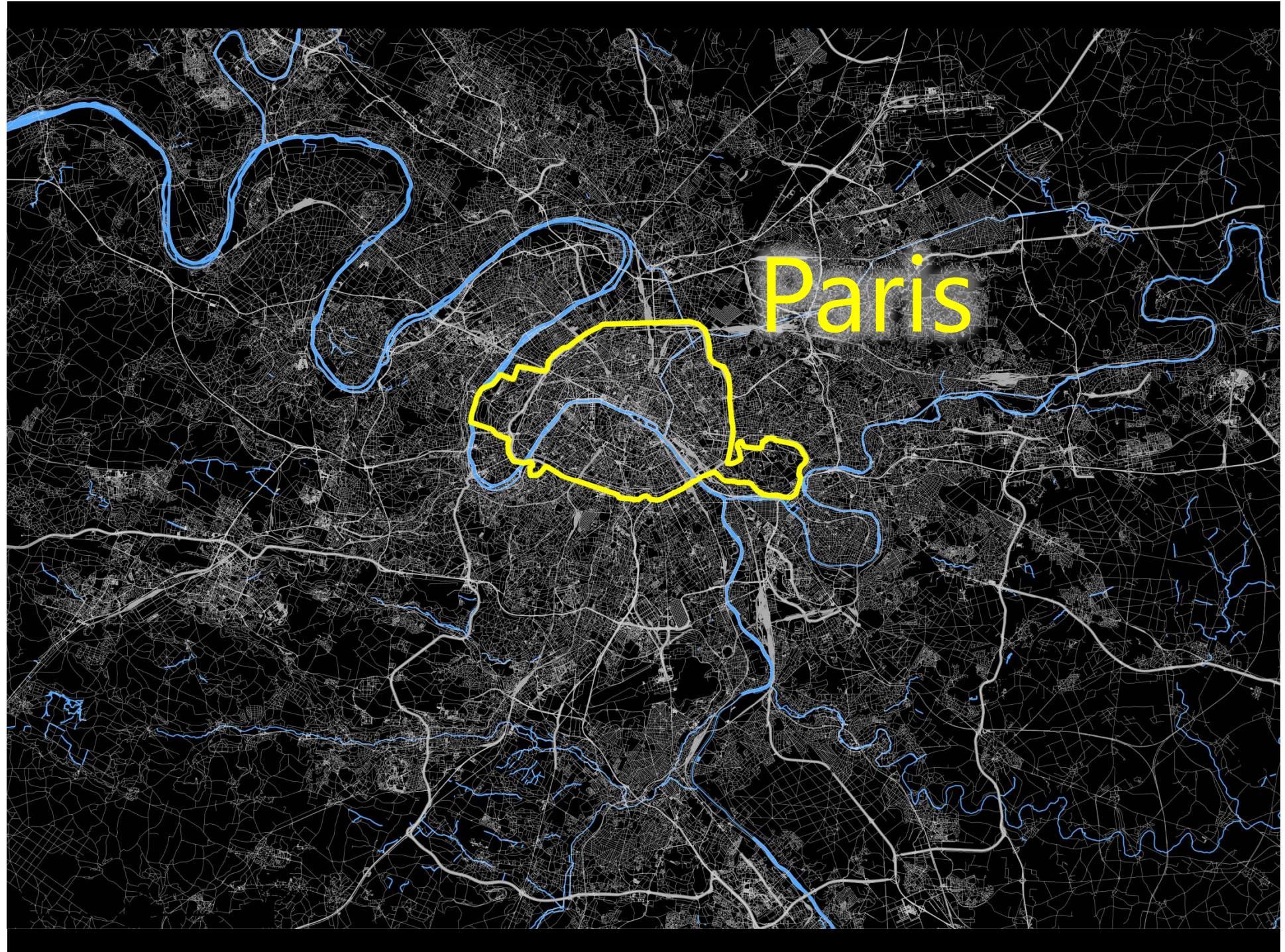


International
Transport Forum



February 2013





Paris

Bike share stations

Paris

-5% Population

1999-2009

Paris

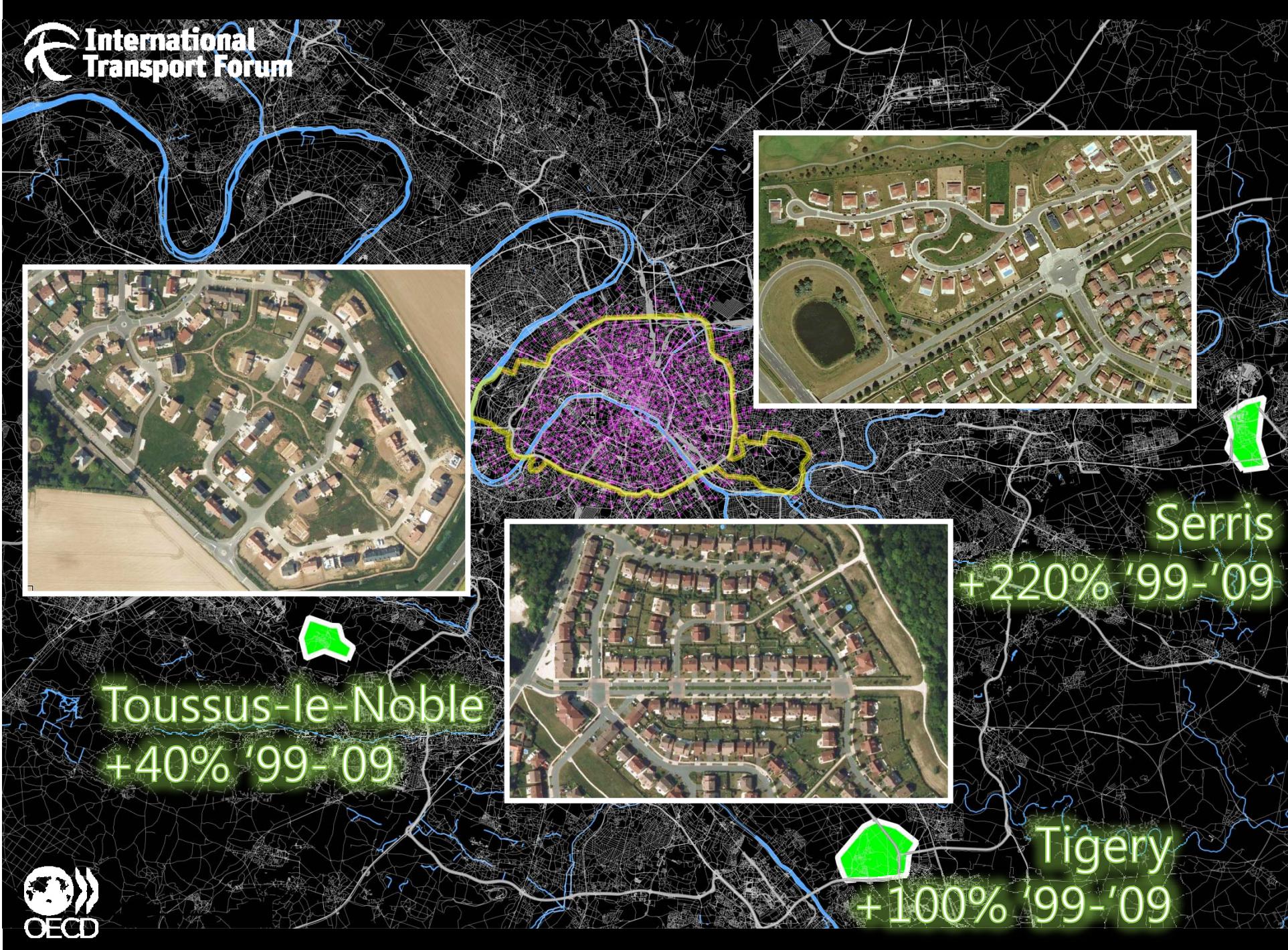
-5% Population

1999-2009

Serris
+220% '99-'09

Toussus-le-Noble
+40% '99-'09

Tigery
+100% '99-'09



diffuse
urbanism
hyper



= Access Enhancer



= Mobility Accelerant









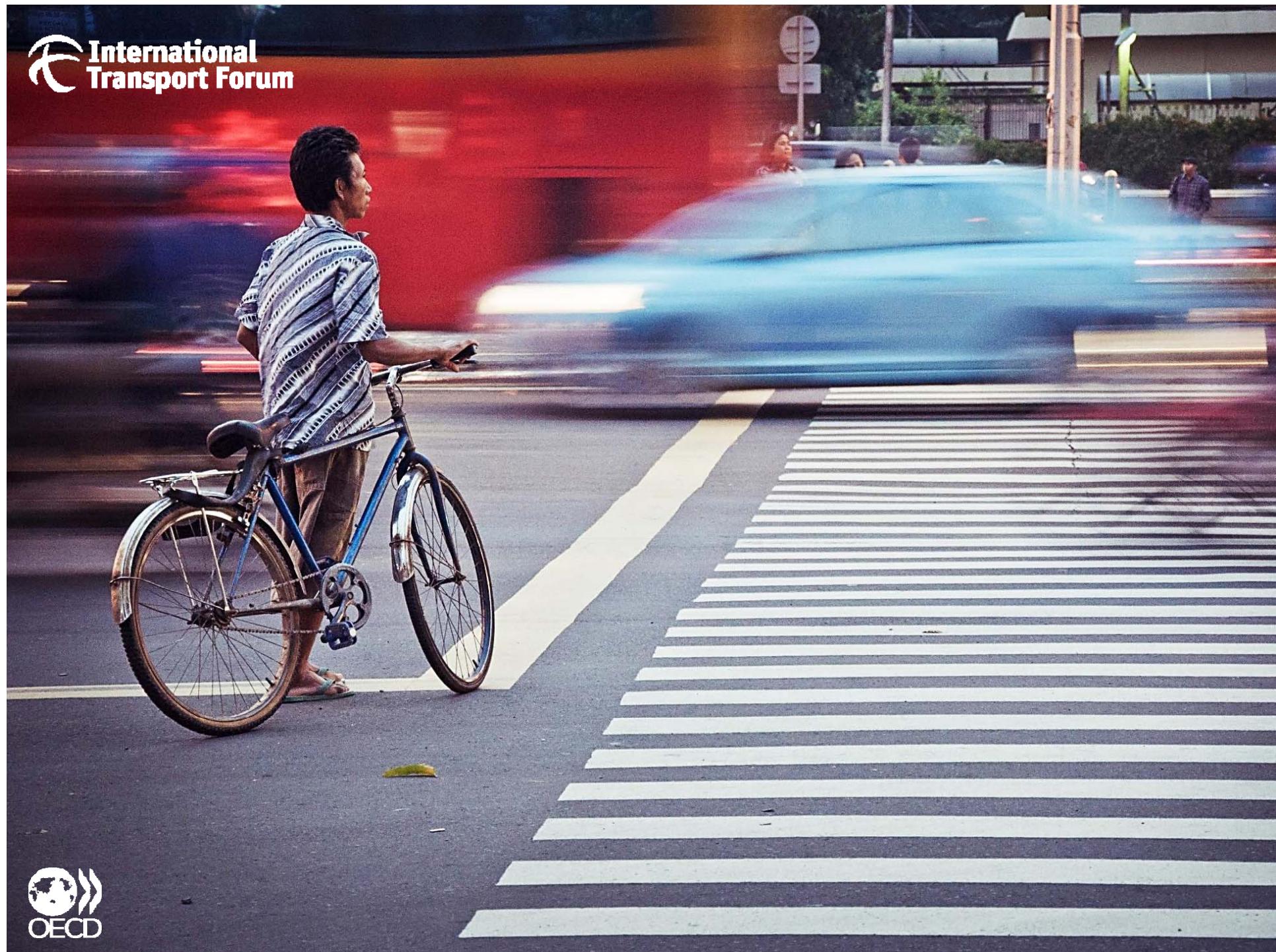
= Public Transport
Catalyst

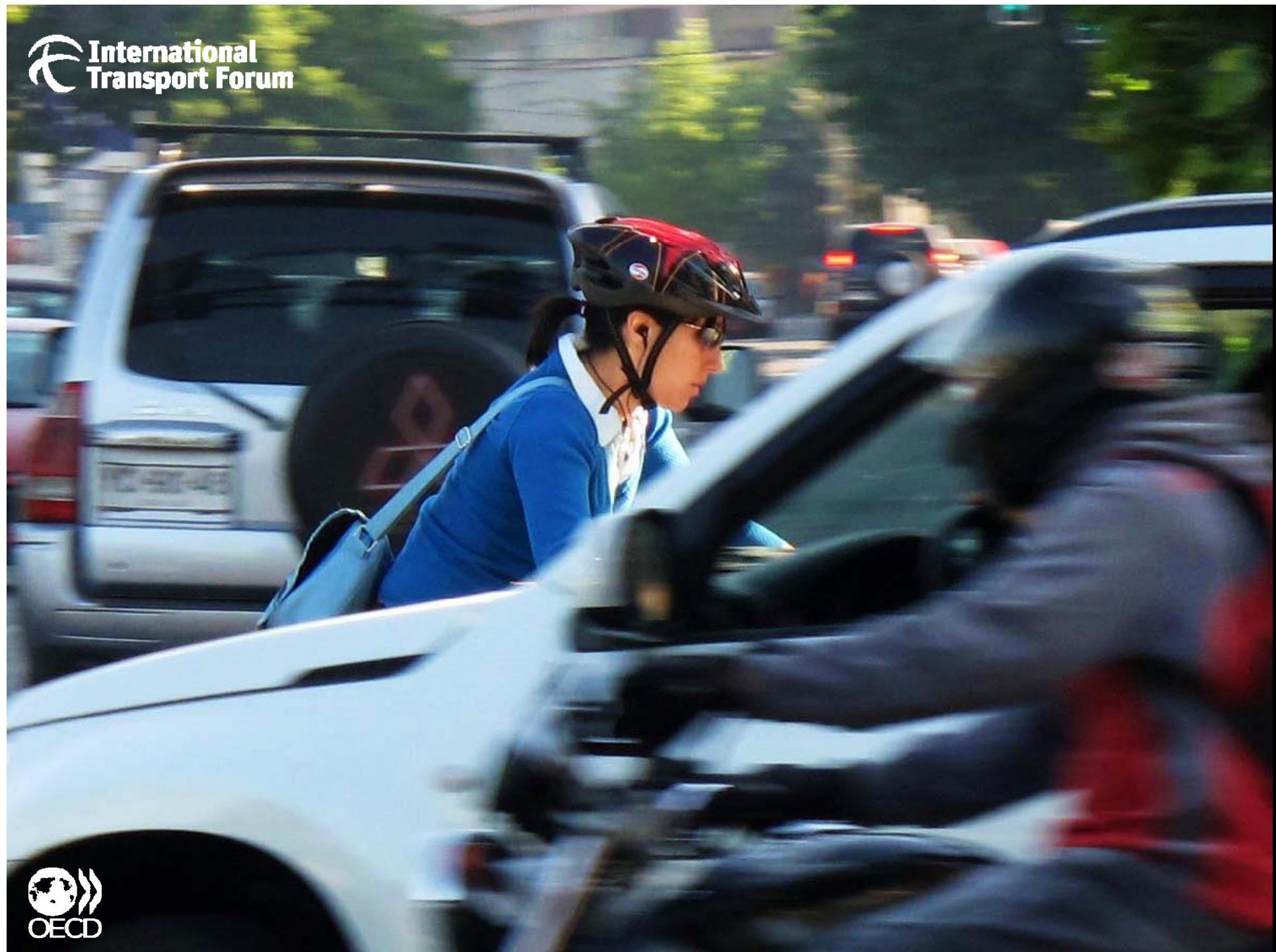
+ safety

on balance, the monetised benefits from improved health are approximately 20x greater than the combined health impacts of crashes and exposure to air pollution



= Health Booster







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Transport Forum



30

20



30%



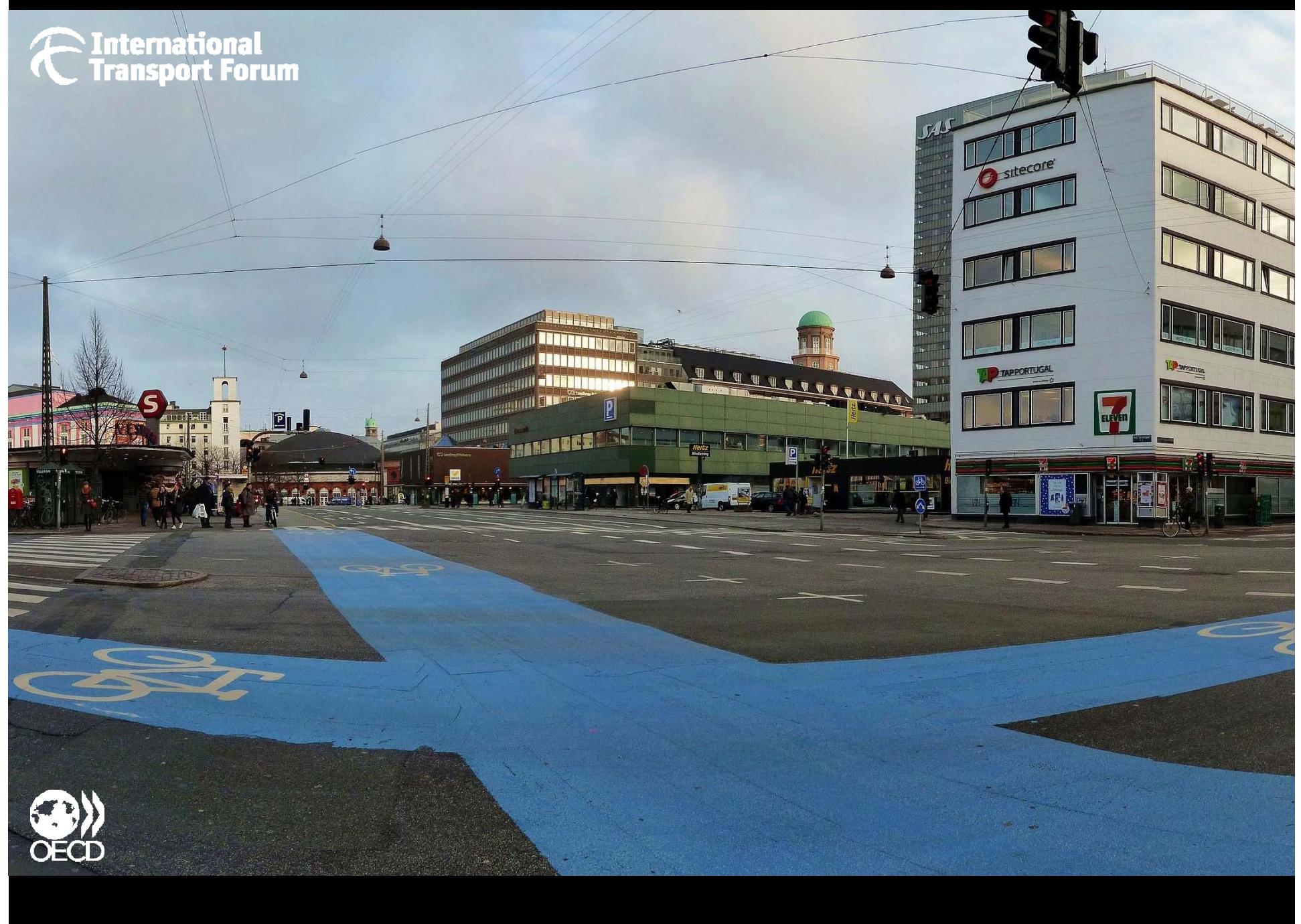
20

of Paris streets 30km or lower



14 30km “slow zones” in New York







= City Regenerator



CZECH REPUBLIC GHANA NETHERLANDS
SERBIA HUNGARY BELGIUM CHINA AUSTRIA
ITALY PORTUGAL ECUADOR SWITZERLAND
DENMARK NORWAY CHILE AUSTRALIA BRAZIL
FINLAND NIGERIA CROATIA CHINESE TAIPEI
ROMANIA UNITED KINGDOM INDIA SLOVAK
REPUBLIC SLOVENIA UGANDA HUNGARY SPAIN
GERMANY SWEDEN NEW ZEALAND FRANCE
POLAND ICELAND UNITED STATES OF AMERICA
COLOMBIA MEXICO TURKEY JAPAN IRELAND

